

Kenny, Ann

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**From:** Hellwig, Raymond  
**Sent:** Thursday, May 17, 2001 12:26 PM  
**To:** Fitzsimmons, Thomas; 'Tom Fitzsimmons'  
**Cc:** Kenny, Ann  
**Subject:** Discussion Paper

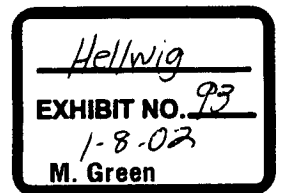
This "updated" table should assist in discussions with Port of Seattle staff and managers regarding needed modeling work and the interrelationship of some key issues.

As we are presently working to more fully understand the matters addressed herein, please consider this document, and the previous draft sent out this a.m., as "deliberative" and not yet available for public disclosure. I will identify this document "deliberative" as part of my response to the next PD request.

Any questions please call.



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AR 017794

Three Of The Key Issues Carried Forward From September '00

*Discussion Paper*

- Relating to the need for the Low Flow Mitigation impact number
- Clarifying experts/consultants responsibilities
- Illustrating issue interrelationships

Issue	Ecology Expert Lead	Relationship Issue 1 and 2	Relationship Issue 1,2 and 3
<p><b>1. SMP</b></p> <p>Stormwater Management Plan</p>	<p><b>Kelly Whiting</b></p> <p>(ECY contract with KC, POS pays)</p>	<p><u>Low flow mitigation (LFM) plans became a part of the SMP in October/November</u></p> <p>The low flow impact number has long been an issue. In September the Port was looking to procure a water right to “augment” flows in DM Creek. However, after further analysis, it became necessary for the Port to consider the use of stormwater to mitigate flows in DM <u>and</u> Miller Creeks.</p>	<p><u>The LFM plan, the SMP and the NRMP are dependent upon a final number showing impact to base flows.</u></p> <p>The amount of water needed to offset impacts to base flows, and sizing of SW ponds and vaults could change with a refined number – we don’t know how much.</p>
<p><b>2. LFM</b></p> <p>Low Flow Mitigation Plan – amount of water needed to offset impact to flows, plus facilities and operations plans</p>	<p><b>Kelly Whiting</b></p> <p>(ECY contract with KC, POS pays – Dave Garland assists. ECY did not have in-house expertise, so the KC contract was amended to allow Kelly to assist with this critical analysis, and the Port agreed to pay for work)</p>	<p>The situation creates a need to further “link” the SMP and LFM analyses – for pond and vault size purposes etc.</p> <p>A low flow impact number was available in January. It was based on the approach presented during facilitated meetings in Oct./Nov/Dec. using integrated analytical models. Upon review during the public comment period, however, our experts identified problems with double counted rain, inaccurate accounting for non-hydrologic impacts, and an over-estimated offset from embankment infiltration. In subsequent meetings with the POS consultants (early April) – technical experts reached agreement on how to address mutually understood problems with the models</p>	<p>If new numbers result in significant adjustments to the SMP, or changes in predicted embankment infiltration, the integrity of the NRMP could be called into question. Lower infiltration could have adverse impacts on the hydrology needed to support wetland mitigation. If changes in the impact numbers are big, changes in SW facilities could have adverse impacts to wetlands or to the wetland mitigation</p>
<p><b>3. NRMP</b></p> <p>Natural Resource Mitigation Plan</p>	<p><b>Katie Walter</b></p> <p>(ECY contract with Shannon and Wilson. POS pays – Erik Stockdale assists)</p>		

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